WEEK-6   Pgm.   23/1/24.

Student. java.

```java
package CIE;
import java.util.Scanner;
class Student
{
    protected String usn = new String();
    protected String name = new String();
    protected int sem;
    public void inputStudentDetails()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the usn");
        usn = s.next();
        System.out.println("Enter the name");
        name = s.next();
        System.out.println("Enter the semester");
        sem = s.nextInt();
    }
    public void displayStudentDetails()
    {
        System.out.println("USN : " + usn);
        System.out.println("Name is : " + name);
        System.out.println("Semester" + sem);
    }
}
```

Internals. java

```java
package CIE;
import java.util.Scanner;
public class Internals extends Student
{
        protected int marks[] = new int[5];
        public void input CIE marks ()
        {
                Scanner s = new Scanner (System.in);
                System.out.println(" enter the
                marks of 5 subjects. ");
                for (int i = 0; i < 5; i++)
                {
                        System.out.println("enter the
                        marks of 5 subjects: ");
                        for (int i = 0; i < 5; i++)
                        {
                                System.out.println("
                                Subject "+ (i+1) + ": ");
                                marks[i] = s.nextInt();
                        }
                }
        }
}
```

Externals.java

```java
package SEE;
import CIE.Internals;
import java.util.Scanner;
public class Externals extends Internals
{
    protected int marks[];
    protected int finalMarks[];
    public Externals()
    {
        marks = new int[5];
        finalMarks = new int[5];
    }
    public void inputSEEmarks()
    {
        Scanner s = new Scanner(System.in);
        for(int i = 0; i<5; i++)
        {
            System.out.println("Subject"
            + (i+1) + "marks: ").
            marks[i] = s.nextInt();
        }
    }
    public void calculateFinalMarks()
    {
        for(int i = 0; i<5; i++)
            finalMarks[i] = marks[i] /2
                        + super.marks[i];
    }
    public void displayFinalMarks()
    {
```

```java
        for (int i = 0; i < 5; i++)
        {
            System.out.println("Subject " +
                (i+1)+ ": " + finalMarks[i]);
        }
    }
}


Main.java
import SEE.Externals;
class Main {
    public static void main (String args[])
    {
        int numOfStudents = 2;
        Externals finalMarks[] = new Externals
                                    [numOfStudents];
        for (int i = 0; i < numOfStudents; i++)
        {
            finalMarks[i] = calculateFinalMarks().
            finalMarks[0] = displayFinalMarks().
        }
    }
}
```

o/p:

Enter the USN

2023BMS02608

Enter the name

Preethi

Enter the Semester

3

Enter CIE marks

Enter the marks for 5 subjects

Subject 1 : ~~84~~ 24

Subject 2 : ~~98~~ 27

Subject 3 : 16

Subject 4 : 28

Subject 5 : 29

Enter SEE marks

Subject 1 marks : 89

Subject 2 marks : 98

Subject 3 marks : 88

Subject 4 marks : 87

Subject 5 marks : 86
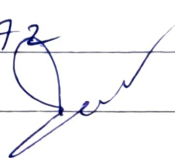

USN : 2023BMS02608

NAME IS : Preethi

Semester : 3

Subject 1 : 68

Subject 2 : 76

Subject 3 : 60

Subject 4 : 71

Subject 5 : 72